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ROUTING AND RECORD SHEET

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Applied Systems Institute Capabilities Briefing

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APPLIED SYSTEMS INSTITUTE, INC.
Corporate Qualifications
in
Automated Systems Development

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APPLIED SYSTEMS INSTITUTE, INC.
Company Profile

- Established in 1977
- Lines of Business
 - Management Information Systems Development
 - Analysis of Economic and Financial Micro-data
 - Management Consulting
 - Policy Analysis
- Professional Staff
 - 6 Economists
 - 2 Business Administration/Management Specialists
 - 15 System Analysts/Programmers
 - 1 Psychologist
 - 1 Statistician
 - 10 Policy Analysts
 - 40 Research Analysts
 - 2 Technical Writers, Editors
- Computer Facilities
 - VAX 11/750
 - 6 IBM PCXTs and Compatibles
 - 5 Printers, including high speed and letter quality
 - 10 Terminals with communication capability
 - On-line access to time sharing systems

APPLIED SYSTEMS INSTITUTE, INC.

List of Clients
(* Current Clients)

- U.S. Department of Energy
 - Asst. Sec. for Emergency Preparedness
 - Asst. Sec. for Resource Applications *
 - Federal Energy Regulatory Commission
 - Energy Regulatory Administration
- U.S. Department of Transportation
 - Office of Secretary of Transportation
 - Federal Aviation Administration *
 - Maritime Administration *
- U.S. Department of Education
 - Student and Institutional Assistance Division, OPBE*
 - Budget Services Division, OPBE *
 - National Center for Educational Statistics *
- U.S. Department of Justice
- National Capitol Planning Commission
- International Monetary Fund
- U.S. Department of Labor
 - Occupational Safety and Health Administration
- U.S. Small Business Administration
 - Office of Advocacy *
 - Asst. Administrator for Minority Small Business
- U.S. Department of Interior
 - Office of Surface Mining *

APPLIED SYSTEMS INSTITUTE, INC.

Representative Projects

Applied Systems Institute, Inc. (ASI) has built a solid reputation in assisting Federal agencies in obtaining the information they need for decision making. The span of our contracts includes information systems design and implementation, data collection, and the processing of large data sets to develop policy options. The following types of activities have been central to our support of our clients.

- Systems design and programming on Digital equipment:

ASI is a systems support consultants utilizing PDP and VAX equipment. Our senior programming staff are mainly oriented toward DEC computers. The system support for the minicomputer system (VAX 11/750) in ASI has been supported and maintained by ASI staff.

The combined experience of ASI staff with DEC equipment and various programming languages and DBMS's in over 30 years. Our hand-on experience encompasses the following equipment and languages.

DEC 10	Fortran, Cobol, Assembly
PDP 11/40, 20	Fortran, Cobol, Assembly
PDP 11/70	Cobol, Fortran
VAX 11/750, 11/780	Fortran, Macro, Assembly
DECMATE II	Wordprocessing
UNIVAC II	Fortran, Assembly

IBM 370/168, 195	Cobol, Fortran, S2K
IBM 3033	Cobol, Fortran
CDC 1700	Fortran, Assembly
CDC Cyber 18	Fortran, Assembly
CDC 3300/6600	Fortran, Cobol, Compass
IBM PC/XT	dBASE II, dBASE III, LOTUS, RBASE 4000, WORDSTAR
Other Software Packages	SAS, SPSS, SSP, M204, S2K, TELLAGRAF

Selected list of specific project related activities performed by ASI utilizing DEC equipment includes:

- Management operation of and systems support for PDP 11/70 and VAX 11/750 systems.
- Upgraded and converted software into VAX systems.
- Installed ORACLE in VAX 11/750 and operated the system for a MIS implementation.
- Designed and implemented a large scale economic and demographic DBMS in VA 11/750 and VAX 11/780.
- Developed software package for managing a large scale data base on individual business statistics (FINSTAT) originated from Dun and Bradstreet on DEC 10.
- Designed and implemented regional economic forecasting models (Econometrics models) on DEC 10.
- Performed software supporting for information traffic control devices on PDP 11/40. This Control Display System in NASA consisted of 52 terminals and eight (8) diskettes.
- Designed and implemented over 50 other medium and large scale econometrics and statistical modules in VAX 11/750.

- Information system design and implementation:

ASI has designed and implemented information systems for four Federal agencies and the International Monetary Fund. Our systems design for the Small Business Administration is illustrative of the ASI approach to system design. SBA needed an MIS to gain access to current program information on the Minority Small Business Program. The existing automated system was not supported by regional and district staff. This imposed a top-down requirement on our design, with the constraint that operating staff would have to keep the data current. ASI examined the laws, regulations and standards of SBA to determine management and operational information needs of the program. Interviews were conducted in ten offices in seven cities to refine needs, priorities, and automated systems requirements. Findings were distilled into a design document that specified system configuration, inputs and outputs, and contained a complete implementation schedule.

By listening to the needs of the operational staff, ASI was able to design the MIS so that the system would be used in day-to-day operation of the program. The result was a detailed system design that can be implemented with operational staff willingly loading and up-dating the data base. The design is to be implemented in a distributed processing environment using ORACLE, a relational data base management system.

The Collection Management Information System (CMIS), an ASI-designed and implemented MIS, is operational at the Office of

Surface Mining. This system, executed in System 2000, allows the assessment office to track the status of over 15,000 civil penalty citations from issuance to coal mine operators by Federal inspectors, through a complex administrative appeal process, to collection of the civil penalties and case disposition.

Our other implemented systems include a nationwide inspection tracking system for the Occupational Safety and Health Administration. Our final product on that project was the implementation Statement of Work used in soliciting the purchase of hardware and software for the system. ASI-installed systems are operating in two divisions of the Department of Energy and at the IMF.

- System loading and data collection:

ASI is currently supporting the Office of Surface Mining at the Interior Department in meeting reporting deadlines imposed by Federal court order. We are identifying, analyzing and loading into the ASI-developed CMIS cases where unabated violations of the Surface Mining Act exist. Reports generated through CMIS are the foundation for submissions to the Court and to plaintiffs.

For the same office, ASI conducted a nationwide inventory of civil penalty collection cases that were in the process of being litigated. We determined the size of the outstanding debt, identified the debtors and their citations, and disaggregated the debt by age and status in the litigation process.

For the Federal Energy Regulatory Commission, we reviewed over 10,000 inter-utility contracts to determine the exact nature of fuel-cost adjustment provisions governing interstate sale of electricity.

ASI is currently developing a longitudinal data base on the small business community using on the DUNS Market Identifier File. The Advocacy Office at the Small Business Administration is the client. Out of the five to six million companies that report financial data to Dun and Bradstreet annually, ASI has identified 11 million establishments that have reported at least twice over the 1976-1984 period. After extensive automated editing, these files are being sorted to reflect revenues and employment levels for businesses as a whole and disaggregated by establishment.

- Policy analysis:

ASI is currently supporting two divisions of the Office of Planning and Budget Evaluation, Department of Education, under separate contracts. We are conducting policy studies utilizing large data sets (e.g., decennial and monthly Census surveys) under task orders issued to support agency management and in response to OMB and Congressional queries. The studies range in scope from overnight responses for information to in-depth analyses of topics in elementary/secondary and postsecondary education.

We were the primary support contractor to the National Commission on Student Financial Assistance. We prepared eight studies for the Commission and gave testimony at hearings in Washington and in other cities.

Other clients who have used our policy analysis skills include the Federal Aviation Administration (aviation activity forecasts), Maritime Administration (compensatory pricing strategies and models for port services), and the American Council of Education (sectoral balance of the distribution of Federal student aid).

In summary, our performance on current and past contracts has demonstrated that ASI is well qualified to manage and operate on the entire flow of information for our clients--from processing original documents, through development and implementation of information processing strategies, to extraction, analysis and presentation of the information.

The best proof of our capacity is the fact that our clients have returned to ASI for additional support when it has been needed. ASI is proud that we are now supporting three clients at the Department of Education and two at the Federal Aviation Administration. Our clients at the Office of Surface Mining and the Department of Energy have returned to ASI consistently over the five and six years, respectively, since we won our first contracts from them.

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